

Amendments to the Specification:

Please replace the paragraph beginning at page 1, line 3 with the following amended paragraph:

A1
Incorporated by reference herein is the Xicor "Smart Battery Fuel Gauge/Safety Device For Cellular Phone Packs" technical reference, U.S. Patent ~~Application~~ Serial No. 6,522,104 [[]], entitled "Method and Apparatus for Measurement of Charge in a Battery," assigned to the assignee of the present invention, and U.S. Patent ~~Application~~ Serial No. 6,501,249 B1 [[]], entitled "Battery Management System," assigned to the assignee of the present invention. Xicor, Inc. is located at 1511 Buckeye Drive, Milpitas, CA 95035.

Please replace the paragraph beginning at page 9, line 9 with the following amended paragraph:

A2
In an alternate implementation, separate counters can be used to measure the amount a battery has been charged or discharged. Instead of using a single counter such as counter 318, the two counters can keep track of the total charge entering and leaving the battery. To determine the net charge of the ~~batter~~ battery, the value in one counter is subtracted from the value in the second counter. The two counters can also be used to determine information such as the number of battery cycles for charging.

Please replace the paragraph beginning at page 9, line 23 with the following amended paragraph:

A3
Serial interface logic 402 includes logic for using a serial protocol over a serial interface 111, between a master and a slave device as well as processing commands transmitted over the serial interface. For example, serial interface logic 402 detects commands, and transmits appropriate signals to operate components within BMU 104. The serial protocol ~~e-embedded~~ embedded in serial interface logic 402 defines a transmitter as a device that sends data on the serial interface 111 and a receiver as a device that receives the data. Further, the device controlling the transfer is a master and the device being controlled

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A3
cont.

is the slave. The master device always initiates data transfers and provides the starting commands for both the transmit and receive operations
